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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appl. No. : 10/783,793
Applicant : Stephan Copeland
Filed : February 20, 2004
Title : MECHANICAL ARM WITH
SPRING COUNTERBALANCE
:
Group Art Unit : 3632
Examiner : Anita M. King
:
Docket No. : 030685

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R. Buchanan
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SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Pittsburgh, Pennsylvania 15219

June 9, 2008

Commissioner for Patents
Post Office Box 1450
Alexandria, Virginia 22313-1450

Sir:

In response to the requirements of 37 C.F.R. § 1.97, Applicant calls to the attention of the
Examiner the following prior art recently cited in an Office Action issued in a corresponding
Japanese application:

JP Application No. 59-34994
JP Application No. 4-57684
JP Application No. 60-74989
JP Application No. 54-54478
JP Application No. 49-54371
JP Application No. 60-84017
JP Application No. 80-17214
EP Application No. 0 489 168

An English translation of the European application is enclosed along with PTO/SB/08B. The
European application. EP 0 489 168, is related to JP Application No. 4-57684 and contains a

substantially similar disclosure. Full English translations of JP Application Nos. 54-54478 and 49-54371 are enclosed. Also, a concise explanation as required by MPEP §609.04 (a) is provided for JP Application Nos. 80-17214, 59-34994, 60-74989 and 60-84017.

JP Application No. 59-34994 relates to an articulated robot including a balancer for compensating for torques resulting from the weight of an arm. The balancer is a piston-cylinder assembly (Figure 3) or a spring 131 (Figure 4). The arm is rotatably mounted to an axle and is operated by a servo mechanism (not shown). A sprocket 10, 101 is fixedly mounted to the axle such that the sprocket cannot rotate in response to the rotation of the arm. A pin 11 is provided to secure one end of a cable 12 to an anchor point on a periphery of the sprocket 10.

JP Application No. 60-74989 relates to a cable driven robot. Cables 12, 13 are looped around a drive pulley 9 and driven pulleys 10, 11. Each cable has a spherical stop 14 provided at both ends. Each pulley has a recess 18 for receiving the spherical stop 14, a radially extending groove 22 and a peripheral groove 26 for receiving the cable such that the cable may be secured at its ends to the pulleys.

JP Application 60-84017 relates to a light stand for use with a computer device that illuminates both a CRT display 2a and an original rest 11. It uses a spiral (or curled) electric cable 21 as shown in Figure 6.

JP Application 80-17214 relates to a lighting stand which uses a curled electric cable 17 as shown in Figure 4. *See also* English Abstract obtained from esp@cenet database and provided with the copy of this application.

JP 4-57684 relates to EP Application No. 0 489 168 and contains a similar disclosure. Applicant directs the Examiner's attention to EP 0 489 168, which is in English, for a description of what is taught in this patent application.

The Office is authorized to charge the required fee for this Supplemental Information
Disclosure Statement to Deposit Account No. 02-4800.

Respectfully submitted,



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